



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE ATTORNEY DOCKET NO. 027053-0107

Applicant:

Angela BELCHER et al.

Title:

PEPTIDE MEDIATED SYNTHESIS OF METALLIC AND

MAGNETIC MATERIALS

Appl. No.:

10/665,721

Filing Date:

09/22/2003

Examiner:

Unassigned

Art Unit:

1651

## INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §1.56

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56. A copy of each non-U.S. patent document and each non-patent document is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

## **TIMING OF THE DISCLOSURE**

The listed documents are being submitted in compliance with 37 CFR §1.97(b), before the mailing date of the first Office Action on the merits.

## RELEVANCE OF EACH DOCUMENT

All of the documents are in English.

Applicants respectfully request that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

Respectfully submitted,

Attorney for Applicant

Registration No. 40,153

Date

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	U.S. PATENT DOCUMENTS									
Examiner Initials*		U.S. Patent De	ocument	Name of Patentee or Applicant of Cited Document	Date of Publication of	Pages, Columns, Lines,				
	Cite No. <sup>1</sup>	Number	Kind Code <sup>2</sup> (if known)		Cited Document  MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear				
	B1	5,262,176		PALMACCI et al.	11/16/1993					
	B2	2003/0068900		BELCHER et al.	04/10/2003					
	В3	2003/0073104		BELCHER et al.	04/17/2003					
	B4	2003/0113714		BELCHER et al.	06/19/2003					
	B5	2003/0148380		BELCHER et al.	08/07/2003					
	B6	2004/0171139		BELCHER et. al.	09/02/2004					

				FOREIGN PATENT DOCUMEN	TS		
Examiner Initials*	Cite No. <sup>1</sup>	F Office	oreign Patent Document  3 Number <sup>4</sup> Kind Code (if known)	Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sub>6</sub>
	B7	wo	2003/078451	NAIK et al.	09/25/2003		
	B8	wo	2004/033488	BELCHER et. al	04/22/2004		
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		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
	B9	BELCHER et al., "Control of Crystal Phase Switching and Orientation by Soluble Mollusc-Shell Proteins," Letters to Nature, Vol. 381, May 2, 1996, pp. 56-58.	
	B10	BROTT et al., "Ultrafast Holographic Nanopattering of Biocatalytically Formed Silica," Letters to Nature, Vol. 413, September 2001, pp. 291-293.	
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Examiner Signature	Date Considered	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

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U.S. PATENT DOCUMENTS									
Examiner Cite Initials* No.		U.S. Patent	Document		Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear			
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	B15	DOUGLAS et al., "Synthesis and Structure of an Iron (III) Sulfide-Ferritin Bioinorganic Nanocomposite," Science, Vol. 269, July 7, 1995, pp. 54-57.	
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				First Named Inventor	Angela M. BELCHER et al.	
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	B45	WHALEY et al., "Selection of Peptides with Semiconductor Binding Specificity for Directed Nanocrystal Assembly," Letters to Nature, Vol. 405, Macmilian Magazines, Ltd., June 2000, pp. 665-668.	
	B46	WONG et al., "Biomimetric Synthesis of Cadmium Sulfide-Ferritin Nanocomposites," Adv. Mater., Vol. 8, 1996, pp. 928-932.	
:	B47	ZAREMBA et al., "Critical Transitions in the Biofabrication of Abalone Shells and Flat Pearls," Chem. Mater., Vol. 8, American Chemical Society, 1996, pp. 679-690.	

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